

WHAT IS CLAIMED IS:

- 1        1.        An electromagnetic shielding structure, comprising:
  - 2                a sheath wire, having a conductive wire and an insulative sheath
  - 3                covering the conductive wire;
  - 4                a terminal fitting, clamping the conductive wire exposed from the
  - 5                insulative sheath, and the terminal fitting passing through a conductive
  - 6                mounting member connected to ground;
  - 7                a molding member, molding so as to cover the sheath wire, the
  - 8                exposed conductive wire and the terminal fitting, and having a first recess and
  - 9                a second recess;
  - 10                wherein the first recess is formed on a first end portion of the
  - 11                molding member, the first end portion contacting the sheath wire;
  - 12                wherein the second recess is formed on a second end
  - 13                portion of the molding member, the second end portion contacting the terminal
  - 14                fitting;
  - 15                a conductive braid, having a tubular shape, and covering the sheath
  - 16                wire and the molding member for absorbing an electromagnetic wave
  - 17                generated from the conductive wire;
  - 18                a first sealing portion, provided in the first recess so as to adhere the
  - 19                molding member and the insulative sheath for securing a waterproof
  - 20                performance;
  - 21                a second sealing portion, provided in the second recess so as to
  - 22                adhere the molding member and the terminal fitting for securing an oil proof
  - 23                and waterproof performance; and

24           a conductive shell, covering the molding member so that the  
25       conductive braid is electrically connected to the conductive mounting member.

1       2.       The electromagnetic shielding structure as set forth in claim 1,  
2       wherein a end portion of the conductive braid and the conductive shell are  
3       mounted on the mounting member by a bolt.

1       3.       The electromagnetic shielding structure as set forth in claim 1,  
2       wherein the first sealing portion is formed by filing a melted resin into the first  
3       recess.

1       4.       The electromagnetic shielding structure as set forth in claim 1,  
2       wherein the second sealing portion is formed by filing a melted resin into the  
3       second recess.

1       5.       An electromagnetic shielding structure, comprising:  
2               a sheath wire, having a conductive wire and an insulative sheath  
3       covering the conductive wire;  
4               a terminal fitting, clamping the conductive wire exposed from the  
5       insulative sheath, and the terminal fitting passing through a conductive  
6       mounting member connected to ground;  
7               a grommet, covering the sheath wire and the terminal fitting, and  
8       having a first end portion and a second end portion, the first end portion being  
9       closely contact with the insulative sheath;  
10              a conductive braid, having a tubular shape, and covering the sheath

11 wire and the grommet for absorbing an electromagnetic wave generated from  
12 the conductive wire;

13 a housing, formed with a recess at a distal end side of the terminal  
14 fitting, the housing fitting the terminal fitting, and being closely contact with the  
15 second end portion of the grommet;

16 a sealing portion, provided in the recess so as to adhere the housing  
17 and the terminal fitting for securing an oil proof and waterproof performance;

18 a conductive shell, covering the molding member and the grommet;  
19 and

20 a shield stopper, fixedly secured to the conductive shell, and holding  
21 the housing in the conductive shell.

1 6. An electromagnetic shielding structure, comprising:

2 a sheath wire, having a conductive wire and an insulative sheath  
3 covering the conductive wire;

4 a terminal fitting, clamping the conductive wire exposed from the  
5 insulative sheath, and the terminal fitting passing through a conductive  
6 mounting member connected to ground;

7 a grommet, covering the sheath wire and the terminal fitting, and  
8 having a first end portion and a second end portion, the first end portion being  
9 closely contact with the insulative sheath;

10 a conductive braid, having a tubular shape, and covering the sheath  
11 wire and the grommet for absorbing an electromagnetic wave generated from  
12 the conductive wire;

13 a housing, fitting the terminal fitting;

14                a heat-shrinkable tube, sealing the housing and the terminal fitting,  
15        and closely fitted with the second end portion of the grommet;  
16                a conductive shell, covering the housing and the grommet; and  
17                a shield stopper, fixedly secured to the conductive shell, and holding  
18        the housing in the conductive shell.